



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Burgess, et al.
SERIAL NUMBER : 09/939,853 EXAMINER : Not Yet Assigned
FILING DATE : August 27, 2001 ART UNIT : 1646
FOR : Novel Proteins and Nucleic Acids Encoding Same

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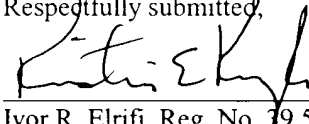
Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (1 page);
2. Modified Form 1449/PTO (7 pages), in duplicate;
3. Cited References B1-B3 and C1-C210; and
4. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any additional fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 21402-099 (Cura-399). A duplicate copy of this transmittal letter is enclosed herewith.

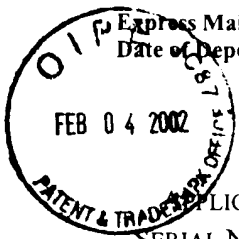
Respectfully submitted,

 Reg. No. 44,848

Ivor R. Elrifi, Reg. No. 39,529
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Dated: February 4, 2002

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INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449 (submitted in duplicate) in the above-identified application, copies of which are submitted herewith. Please note due to its volume only the first page of reference B2 (EP1074617) is being submitted. A copy of the patent can be furnished upon the request of the Examiner. The order of presentation of the references should not be construed as an indication of the importance of the references.

This Information Disclosure Statement is being filed before the mailing date of an Office Action on the merits in the above-identified application. Accordingly, no fee or certification is believed due at this time.

It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed Form PTO-1449 to evidence that the cited information has been fully considered by the PATENT AND TRADEMARK OFFICE during the examination of this application.

Please charge any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311 (Reference No. 21402-099).

Respectfully submitted,

KS Elrifi, Reg No 44,848

Ivor R. Elrifi Registration No. 39,529

for Attorney for the Applicants

c/o MINTZ, LEVIN, COHN, FERRIS,
GLOVSKY and POPEO, P.C.

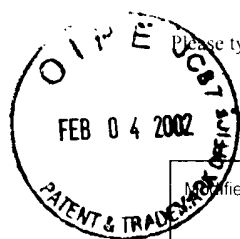
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Dated: February 4, 2002



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	09/939,853
	Filing Date	08/27/01
	First Named Inventor	Burgess
	Group Art Unit	1646
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	21402-099

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate

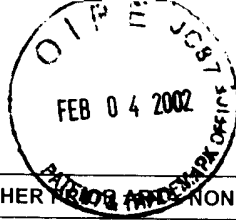
FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office Number		Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No	
	B1	EP	1033405	Ceres Incorporated	09/06/2000		
	B2	EP	1074617	Helix Research Institute (First Page Only)	02/07/2001		
	B3	EP	1033401	Genset	09/06/2000		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C1	GenBank Accession Number: CAB01233 (06/20/01).
	C2	SWALL (SPTR) Accession Number: Q9N4G7 (10/01/00).
	C3	GenBank Accession Number: Z77666 (06/20/01).
	C4	GenBank Accession Number: XM_038002 (10/16/01).
	C5	GenBank Accession Number: XM_039746 (10/16/01).
	C6	GenBank Accession Number: AAF51854 (10/04/00).
	C7	GenBank Accession Number: AAF52569 (10/04/00).
	C8	GenBank Accession Number: AAF53188 (10/04/00).
	C9	GenBank Accession Number: AAF55108 (10/05/00).
	C10	GenBank Accession Number: AAF58048 (10/04/00).
	C11	GenBank Accession Number: AAF59281 (10/04/00).
	C12	GenBank Accession Number: AE003598 (10/04/00).
	C13	GenBank Accession Number: AE003619 (10/04/00).
	C14	GenBank Accession Number: AE003636 (10/04/00).
	C15	GenBank Accession Number: AE003706 (10/05/00).
	C16	GenBank Accession Number: AE003808 (10/04/00).
	C17	GenBank Accession Number: AE003842 (10/04/00).
	C18	SWALL (SPTR) Accession Number: Q9V4I9 (05/01/00).
	C19	SWALL (SPTR) Accession Number: Q9V7K1 (05/01/00).



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OTHER PUBLISHED NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C20	SWALL (SPTR) Accession Number: Q9VFF2 (05/01/00).
	C21	SWALL (SPTR) Accession Number: Q9VK90 (05/01/00).
	C22	SWALL (SPTR) Accession Number: Q9VLW2 (05/01/00).
	C23	SWALL (SPTR) Accession Number: Q9VNR8 (05/01/00).
	C24	GenBank Accession Number: U72744 (02/01/97).
	C25	Alderborn, et al. (2000). "Determination of single-nucleotide polymorphisms by real-time pyrophosphate DNA sequencing." <i>Genome Res.</i> 10 (8): 1249-1258.
	C26	Alessi, et al. (1997). "3-Phosphoinositide-dependent protein kinase-1 (PDK1): structural and functional homology with the Drosophila DSTPK61 kinase." <i>Curr. Biol.</i> 7 (10): 776-789.
	C27	Alessi, et al. (1997). "Characterization of a 3-phosphoinositide-dependent protein kinase which phosphorylates and activates protein kinase Balpha." <i>Curr. Biol.</i> 7 (4): 261-269.
	C28	GenBank Accession Number: AAC50357 (09/12/00).
	C29	GenBank Accession Number: U30473 (09/12/00).
	C30	SWALL (SPTR) Accession Number: Q13239 (11/01/96).
	C31	GenBank Accession Number: AAC48618 (08/22/96).
	C32	GenBank Accession Number: AAC50646 (08/22/96).
	C33	GenBank Accession Number: U23028 (08/22/96).
	C34	GenBank Accession Number: AL035424 (11/23/99).
	C35	GenBank Accession Number: CAB39994 (11/23/99).
	C36	SWALL (SPTR) Accession Number: Q9C0H6 (10/16/01).
	C37	SWALL (SPTR) Accession Number: Q9Y3J5 (10/16/01).
	C38	Burn, et al. (1996). "Generation of a transcriptional map for a 700-kb region surrounding the polycystic kidney disease type 1 (PKD1) and tuberous sclerosis type 2 (TSC2) disease genes on human chromosome 16p3.3." <i>Genome Res.</i> 6 (6): 525-537.
	C39	GenBank Accession Number: AK003661 (07/05/01).
	C40	GenBank Accession Number: AK005100 (07/05/01).
	C41	GenBank Accession Number: AK007036 (07/05/01).
	C42	GenBank Accession Number: AK010359 (07/05/01).
	C43	GenBank Accession Number: AK018438 (07/05/01).
	C44	GenBank Accession Number: AK018708 (07/05/01).
	C45	GenBank Accession Number: AK020837 (07/05/01).
	C46	GenBank Accession Number: BAB22923 (07/05/01).
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	C48	GenBank Accession Number: BAB24835 (07/05/01).
	C49	GenBank Accession Number: BAB26879 (07/05/01).
	C50	GenBank Accession Number: BAB31212 (07/05/01).
	C51	GenBank Accession Number: BAB31359 (07/05/01).
	C52	GenBank Accession Number: BAB32223 (07/05/01).
	C53	SWALL (SPTR) Accession Number: Q9SN75 (05/01/00).
	C54	GenBank Accession Number: AL132955 (11/30/99).
	C55	GenBank Accession Number: CAB61989 (11/30/99).



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	C56	GenBank Accession Number AAB46616 (02/10/97).
	C57	GenBank Accession Number P33527 (03/01/01).
	C58	GenBank Accession Number D64005 (10/08/99).
	C59	GenBank Accession Number: AAB17690 (10/30/96).
	C60	GenBank Accession Number: U19516 (10/30/96).
	C61	GenBank Accession Number: AAB83979 (11/06/97).
	C62	GenBank Accession Number: AAB83983 (11/06/97).
	C63	GenBank Accession Number: AF022853 (11/08/97).
	C64	SWALL (SPTR) Accession Number: Q9UQ99 (05/01/00).
	C65	GenBank Accession Number: AJ251892 (12/22/99).
	C66	GenBank Accession Number: CAB64381 (12/22/99).
	C67	SWALL (SPTR) Accession Number: Q9U111 (05/01/00).
	C68	Gubb and Garcia-Bellido (1982). "A genetic analysis of the determination of cuticular polarity during development in <i>Drosophila melanogaster</i> ." <i>J. Embryol. Exp. Morphol.</i> 68: 37-57.
	C69	GenBank Accession Number: AAD55929 (09/21/99).
	C70	GenBank Accession Number: AF148265 (09/21/99).
	C71	SWALL (SPTR) Accession Number: Q9RPT3 (05/01/00).
	C72	GenBank Accession Number: AAB59366 (08/03/93).
	C73	GenBank Accession Number: CAA32889 (03/31/95).
	C74	GenBank Accession Number: BAA28955 (06/20/98).
	C75	GenBank Accession Number: AB036840 (07/15/00).
	C76	GenBank Accession Number: AB036841 (07/15/00).
	C77	GenBank Accession Number: BAB00617 (07/15/00).
	C78	GenBank Accession Number: BAB00618 (07/15/00).
	C79	SWALL (SPTR) Accession Number: Q9NDQ8 (10/01/00).
	C80	SWALL (SPTR) Accession Number: Q9NDQ9 (10/01/00).
	C81	Hoyt (1994). "Cellular roles of kinesin and related proteins." <i>Curr. Opin. Cell Biol.</i> 6(1): 63-68.
	C82	GenBank Accession Number: AAF17300 (12/14/99).
	C83	GenBank Accession Number: AF108229 (12/14/99).
	C84	SWALL (SPTR) Accession Number: Q9U541 (05/01/00).
	C85	Hurd and Saxton (1996). "Kinesin mutations cause motor neuron disease phenotypes by disrupting fast axonal transport in <i>Drosophila</i> ." <i>Genetics</i> 144(3): 1075-1085.
	C86	SWALL (SPTR) Accession Number: Q9H875 (03/01/01).
	C87	SWALL (SPTR) Accession Number: Q9H955 (03/01/01).
	C88	GenBank Accession Number: AK001921 (02/22/00).
	C89	GenBank Accession Number: AK021895 (09/29/00).
	C90	GenBank Accession Number: AK023057 (09/29/00).
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OTHER NON PATENT LITERATURE DOCUMENTS		
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	C93	GenBank Accession Number: BAB14742 (09/29/00).
	C94	SWALL (SPTR) Accession Number: Q55909 (11/01/97).
	C95	GenBank Accession Number: BAA10672 (07/04/01).
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	C97	GenBank Accession Number: BAB15201 (09/29/00).
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	C109	GenBank Accession Number: AAA36741 (09/15/94).
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	C111	GenBank Accession Number: CAA76658 (05/12/99).
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	C118	GenBank Accession Number: AAC12836 (04/05/00).
	C119	GenBank Accession Number: AC004238 (04/05/00).
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	C123	GenBank Accession Number: CAB75365 (07/20/01).
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	C126	GenBank Accession Number: AB054031 (07/27/01).
	C127	GenBank Accession Number: BAB32487 (07/27/01).
	C128	SWALL (SPTR) Accession Number: Q99PT4 (06/01/01).
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	C130	GenBank Accession Number: BAB32495 (06/27/01).
	C131	GenBank Accession Number: Z92844 (11/23/99).

OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C132	Moore and Endow (1996). "Kinesin proteins: a phylum of motors for microtubule-based motility." <i>Bioessays</i> 18(3): 207-219.
	C133	GenBank Accession Number: AAD09622 (07/14/99).
	C134	GenBank Accession Number: AF111168 (07/14/99).
	C135	GenBank Accession Number: O95432 (05/01/99).
	C136	GenBank Accession Number: AB033062 (11/11/99).
	C137	GenBank Accession Number: AB046863 (02/22/01).
	C138	GenBank Accession Number: AB051474 (02/07/01).
	C139	GenBank Accession Number: BAA86550 (11/11/99).
	C140	GenBank Accession Number: BAB13469 (02/22/01).
	C141	GenBank Accession Number: BAB21778 (02/07/01).
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	C143	SWALL (SPTR) Accession Number: Q9HCC9 (03/01/01).
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	C146	GenBank Accession Number: AF252281 (07/04/00).
	C147	GenBank Accession Number: AF252283 (07/04/00).
	C148	GenBank Accession Number: BAA13758 (02/07/99).
	C149	Online Inheritance in Man OMIM: 116806 (06/16/94).
	C150	Online Inheritance in Man OMIM: 127600 (06/04/86).
	C151	Online Inheritance in Man OMIM: 171190 (06/29/88).
	C152	Online Inheritance in Man OMIM: 175100 (06/02/86).
	C153	Online Inheritance in Man OMIM: 176705 (08/06/91).
	C154	Online Inheritance in Man OMIM: 176807 (02/07/92).
	C155	Online Inheritance in Man OMIM: 178000 (06/02/86).
	C156	Online Inheritance in Man OMIM: 184757 (06/21/94).
	C157	Online Inheritance in Man OMIM: 232200 (06/03/86).
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	C168	GenBank Accession Number: AAC25416 (07/02/98).
	C169	SWALL (SPTR) Accession Number: O88563 (07/15/99).

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Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C170	GenBank Accession Number: AAA82756 (08/31/95).
	C171	SWALL (SPTR) Accession Number: Q60898 (11/01/96).
	C172	GenBank Accession Number: U29056 (12/04/95).
	C173	GenBank Accession Number: AP003044 (01/26/01).
	C174	GenBank Accession Number: BAB19328 (01/26/01).
	C175	SWALL (SPTR) Accession Number: Q9FP22 (03/01/01).
	C176	GenBank Accession Number: AAC25186 (12/12/00).
	C177	GenBank Accession Number: AF068754 (12/12/00).
	C178	GenBank Accession Number: AAD10191 (01/28/99).
	C179	GenBank Accession Number: AF102777 (01/28/99).
	C180	SWALL (SPTR) Accession Number: Q9Z1T6 (05/30/00).
	C181	GenBank Accession Number: AL158075 (06/21/01).
	C182	GenBank Accession Number: AL050320 (04/04/01).
	C183	GenBank Accession Number: CAC36074 (04/04/01).
	C184	SWALL (SPTR) Accession Number: Q9BQL4 (06/01/01).
	C185	SWALL (SPTR) Accession Number: Q9U3B7 (05/01/00).
	C186	GenBank Accession Number: AAC48313 (04/17/98).
	C187	SWALL (SPTR) Accession Number: Q23832 (11/01/96).
	C188	GenBank Accession Number: U42213 (04/17/98).
	C189	GenBank Accession Number: AAH01130 (07/12/01).
	C190	GenBank Accession Number: AAH05999 (07/12/01).
	C191	GenBank Accession Number: BC005999 (07/12/01).
	C192	SWALL (SPTR) Accession Number: Q9BQ24 (06/01/01).
	C193	GenBank Accession Number: AAB80938 (10/13/97).
	C194	GenBank Accession Number: AF022908 (10/13/97).
	C195	SWALL (SPTR) Accession Number: O35379 (01/01/98).
	C196	SWALL (SPTR) Accession Number: O76007 (11/01/98).
	C197	GenBank Accession Number: AJ011654 (10/14/98).
	C198	GenBank Accession Number: CAA09726 (10/14/98).
	C199	GenBank Accession Number: AAF36018 (11/03/01).
	C200	GenBank Accession Number: AC024201 (11/03/01).
	C201	GenBank Accession Number: AAC72122 (09/26/01).
	C202	GenBank Accession Number: AC005278 (09/26/01).
	C203	SWALL (SPTR) Accession Number: Q9ZVS7 (05/01/99).
	C204	Wijnholds, et al. (1997). "Increased sensitivity to anticancer drugs and decreased inflammatory response in mice lacking the multidrug resistance-associated protein." <i>Nat. Med.</i> 3(11): 1275-1279.
	C205	GenBank Accession Number: AL133463 (03/15/01).
	C206	GenBank Accession Number: CAC16127 (03/15/01).
	C207	SWALL (SPTR) Accession Number: Q9H599 (03/01/01).

OTHER PRIOR ART, NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C208	SWALL (SPTR) GenBank Accession Number: 074339 (11/01/98).
	C209	GenBank Accession Number: AL031174 (02/01/00).
	C210	GenBank Accession Number: CAA20110 (02/01/00).

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	
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